

PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Twenty

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

November 1, 1957

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the third quarter of 1957:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation, Division of Crown Zellerbach Corporation

Georgia Kraft Company

International Paper Company

North Carolina Pulp Co. & Kieckhefer Container Co.

Olin Mathieson Chemical Corp., Forest Products Division

Owens-Illinois Glass Company, Mill Division

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag-Camp Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters. The total production data for the first three quarters of 1957 are given in Table I together with, for purposes of comparison, the total quarterly production data for 1954, 1955, and 1956. The total production data by quarters from 1954 to the present are illustrated graphically in Figure 1.

Production data for the major grades are shown in Table II on a quarterly basis for 1956 and 1957. Production data for all grades are given in Table III for 1956 and 1957 on a quarterly basis. In addition, percentage production by grades is given in Table IV for 1956 and 1957. These percentage figures are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The current tonnage data for the major grades---namely, 26 lb., 33 lb., 38 lb., 42 lb., 47 lb., 69 lb., 90 lb., and miscellaneous---are illustrated graphically in Figures 2 through 9, respectively, together with the production for the previous quarters. Also shown in Figures 2 through 9 is the percentage of total production which each grade represents.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Figure 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are numerous comparisons which may be of interest, some of which are the following:

1. The total production of all grades for the third quarter of 1957 (see Table I) was slightly lower than that for the first and second quarters and was approximately 35,000 tons lower than that for the corresponding quarter of 1956.
2. The tonnages of the major grades are shown on a quarterly basis for 1956 and 1957 to date in Table II where it may be noted that, compared with the production of the corresponding grades during the second quarter of 1957, third quarter production of the following grades increased: 38 lb., 42 lb., 69 lb., and 90 lb.; and production of the following grades decreased: 26 lb., 33 lb., 47 lb., and miscellaneous.

TABLE I

TOTAL TONNAGE OF ALL GRADES

	1954	1955	1956	1957
1st Quarter	720,954	886,487	972,607	932,706
2nd Quarter	770,597	945,631	995,265	946,959
3rd Quarter	765,742	965,247	959,662	924,262
4th Quarter	<u>853,434</u>	<u>959,008</u>	<u>952,295</u>	
Total	3,110,727	3,756,373	3,879,829	

TABLE II

TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1956 AND 1957

Grade	<u>1956</u>			
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
26 lb.	81,469	103,099	89,233	105,159
33 lb.	57,527	63,488	55,673	55,573
38 lb.	80,502	74,730	84,882	75,808
42 lb.	435,893	419,538	440,988	397,641
47 lb.	31,235	32,937	31,042	23,200
69 lb.	119,016	115,284	106,722	117,382
90 lb.	44,297	50,820	50,860	50,910
Misc.	90,436	77,131	69,186	74,245
<u>1957</u>				
26 lb.	90,748	83,616	65,968	
33 lb.	56,452	55,636	53,369	
38 lb.	73,283	82,907	86,731	
42 lb.	414,657	416,928	418,698	
47 lb.	22,150	27,665	26,670	
69 lb.	107,473	115,538	117,382	
90 lb.	61,268	54,779	57,479	
Misc.	78,240	81,138	74,027	

TABLE III

TOTAL TONNAGE BY GRADES

Grade	1956				1957			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
26 lb.	81,469	103,099	89,233	105,159	90,748	83,616	65,968	
27 lb.	424	--	--	--	--	--	--	
28 lb.	4,290	5,949	2,477	3,557	2,085	2,622	1,626	
30 lb.	45	596	72	1,465	1,426	791	1,525	
31 lb.	--	163	--	--	--	--	--	
32 lb.	893	575	479	605	556	1,289	689	
33 lb.	57,527	63,488	55,673	55,573	56,452	55,636	53,369	
35 lb.	--	--	--	--	41	--	15	
36 lb.	525	448	188	226	418	55	--	
37 lb.	--	5	--	--	--	--	--	
38 lb.	80,502	74,730	84,882	75,808	73,283	82,907	86,731	
40 lb.	--	25,863	--	26,033	--	--	--	
42 lb.	435,893	419,538	440,988	397,641	414,657	416,928	418,698	
44 lb.	238	--	--	--	--	--	--	
45 lb.	19,463	20,761	18,729	15,142	19,023	19,760	14,749	

TABLE III--Continued

TOTAL TONNAGE BY GRADES

Grade	1956				1957			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
46 lb.	--	--	--	61	--	--	184	
47 lb.	31,235	32,937	31,042	23,200	22,150	27,665	26,670	
50 lb.	2,991	1,485	1,945	870	1,371	471	411	
51 lb.	370	319	105	459	124	--	--	
52 lb.	987	784	938	711	624	601	1,002	
56 lb.	176	102	151	40	--	--	--	
59 lb.	--	110	--	--	--	--	--	
60 lb.	--	--	--	55	625	424	111	
62 lb.	219	--	325	--	--	--	37	
64 lb.	145	--	--	1,034	387	656	1,926	
65 lb.	1,014	563	1,686	--	1,232	1,154	413	
67 lb.	--	515	270	364	--	613	--	
69 lb.	119,016	115,284	106,722	117,382	107,473	115,538	117,382	
72 lb.	--	--	1,899	--	328	--	--	
75 lb.	--	--	1,531	--	--	114	975	
76 lb.	445	--	281	1,755	195	202	194	
80 lb.	7	--	--	--	--	--	--	
85 lb.	--	--	--	--	--	--	81	
90 lb.	44,297	50,820	50,860	50,910	61,268	54,779	57,479	
Misc.	90,436	77,131	69,186	74,245	78,240	81,138	74,027	

TABLE IV

TOTAL TONNAGE BY GRADES, PER CENT

		1956				1957			
Grade	With ^a out ^b	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
		With ^a out ^b	With ^a out ^b	With ^a out ^b	With ^a out ^b	With ^a out ^b	With ^a out ^b	With ^a out ^b	With ^a out ^b
26 lb.	8.4	9.2	10.4	11.2	9.3	11.0	12.0	9.7	10.6
27 lb.	c	c	--	--	--	--	--	8.8	9.7
28 lb.	0.4	0.5	0.6	0.6	0.3	0.4	0.4	0.3	0.2
30 lb.	c	c	0.1	0.1	c	0.2	0.2	0.1	0.2
31 lb.	--	--	c	c	--	--	--	--	--
32 lb.	0.1	0.1	0.1	0.1	c	0.1	0.1	0.1	0.1
33 lb.	5.9	6.5	6.4	6.9	5.8	6.3	6.3	5.9	6.4
35 lb.	--	--	--	--	--	--	--	c	c
36 lb.	0.1	0.1	c	c	c	c	c	c	c
37 lb.	--	--	c	c	--	--	--	--	--
38 lb.	8.3	9.1	7.5	8.1	8.8	8.0	8.6	8.8	9.6
40 lb.	--	--	2.6	2.8	--	2.7	3.0	9.4	10.2

TABLE IV--Continued

TOTAL TONNAGE BY GRADES, PER CENT

Grade	1956				1957			
	1st Qtr. With ^a out ^b	2nd Qtr. With ^a out ^b	3rd Qtr. With ^a out ^b	4th Qtr. With ^a out ^b	1st Qtr. With ^a out ^b	2nd Qtr. With ^a out ^b	3rd Qtr. With ^a out ^b	4th Qtr. With ^a out ^b
42 lb.	44.8	42.2	46.0	41.8	44.5	44.0	45.3	49.2
44 lb.	c	--	--	--	--	--	--	--
45 lb.	2.0	2.1	2.0	1.6	2.0	2.1	1.6	--
46 lb.	--	--	--	c	--	--	c	1.7
47 lb.	3.2	3.3	3.2	2.4	2.4	2.9	2.9	c
50 lb.	0.3	0.1	0.2	0.1	0.1	c	c	3.1
51 lb.	c	c	c	c	c	--	--	c
52 lb.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
56 lb.	c	c	c	c	--	--	--	0.1
59 lb.	--	c	--	--	--	--	--	--
60 lb.	--	--	--	c	0.1	c	c	--
62 lb.	c	--	c	--	--	--	c	c

TABLE IV--Continued
TOTAL TONNAGE BY GRADES, PER CENT

Grade	1956				1957			
	1st Qtr. With ^a out ^b	2nd Qtr. With ^a out ^b	3rd Qtr. With ^a out ^b	4th Qtr. With ^a out ^b	1st Qtr. With ^a out ^b	2nd Qtr. With ^a out ^b	3rd Qtr. With ^a out ^b	4th Qtr. With ^a out ^b
64 lb.	c	--	--	0.1	c	0.1	0.2	With ^a out ^b
65 lb.	0.1	0.1	0.2	--	0.1	0.1	c	0.2
67 lb.	--	0.1	c	c	--	0.1	--	--
69 lb.	12.2	11.6	11.1	12.3	11.5	12.2	12.7	13.8
72 lb.	--	--	0.2	--	c	--	--	--
75 lb.	--	--	0.2	--	--	c	0.1	0.1
76 lb.	c	--	c	0.2	c	c	c	c
80 lb.	c	--	--	--	--	--	--	--
85 lb.	--	--	--	--	--	--	c	c
90 lb.	4.6	5.1	5.3	5.3	6.6	5.8	6.2	6.8
Misc.	9.3	7.7	7.2	7.8	8.4	8.6	8.0	

^a Percentage based on the total production of all grades including Miscellaneous.
^b Percentage based on the total production of all grades excluding Miscellaneous.
^c Less than one-tenth of one per cent after being rounded off.

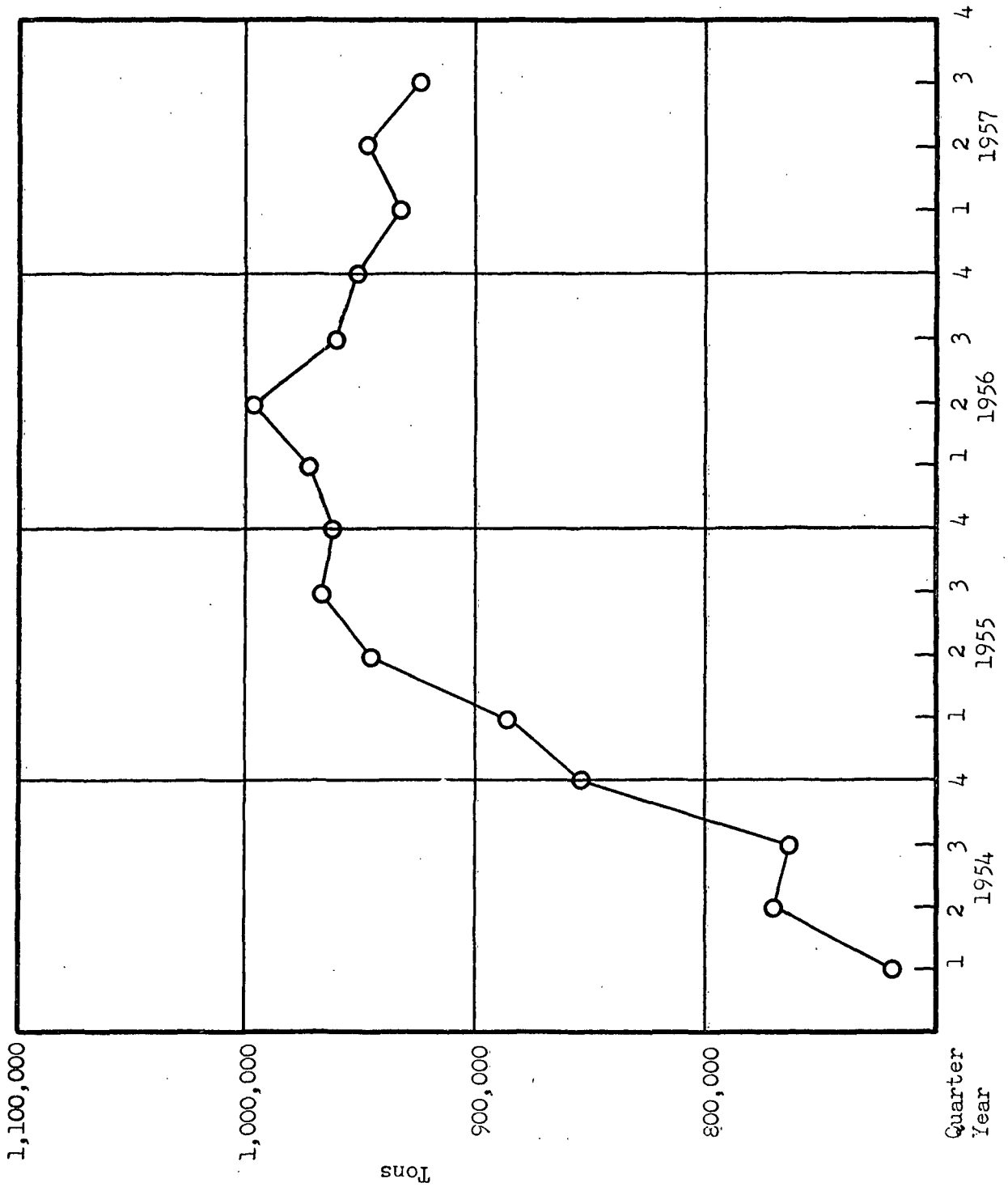


Figure 1. Paper Board Production of All Grades

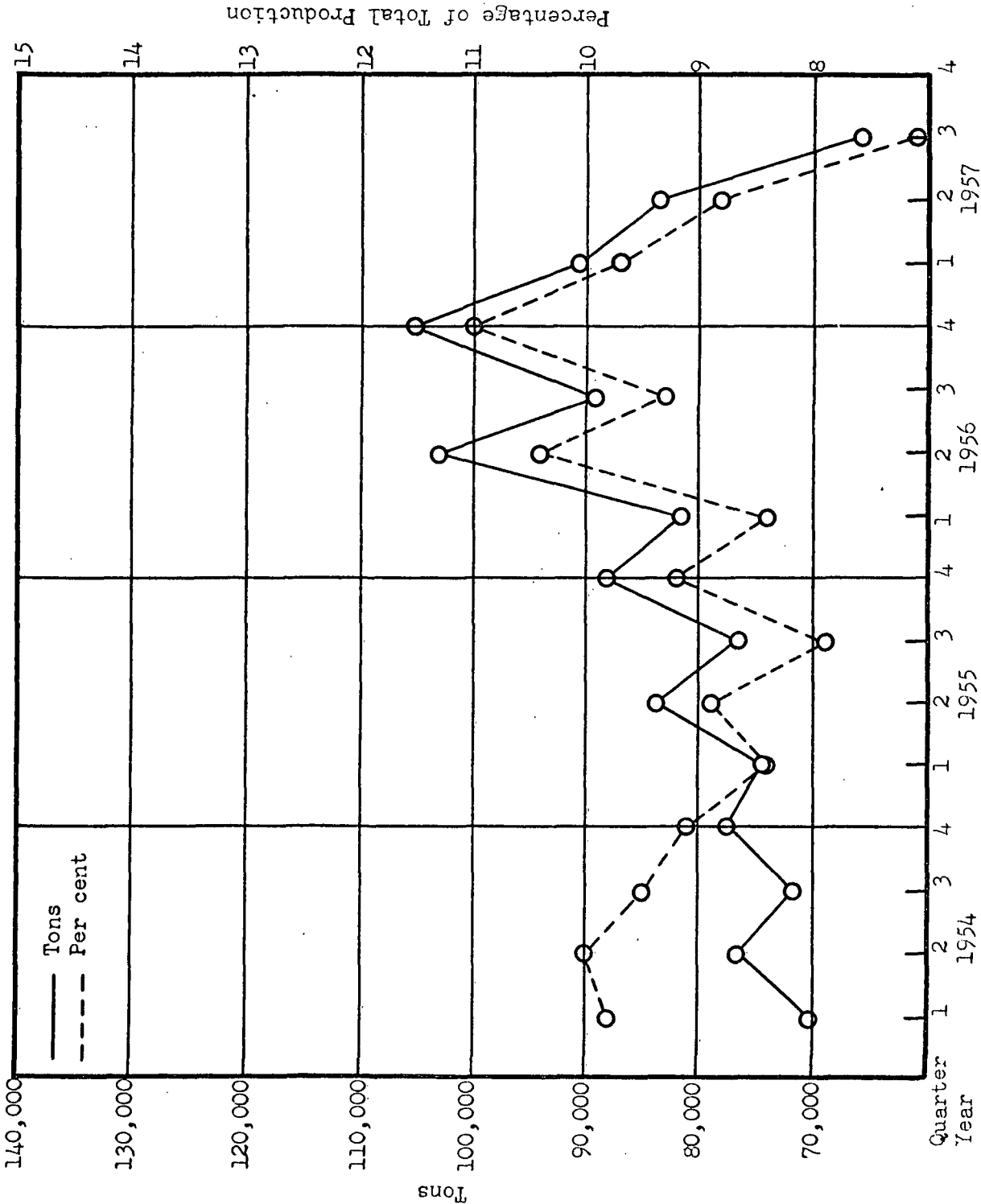


Figure 2. Production, 26-lb.

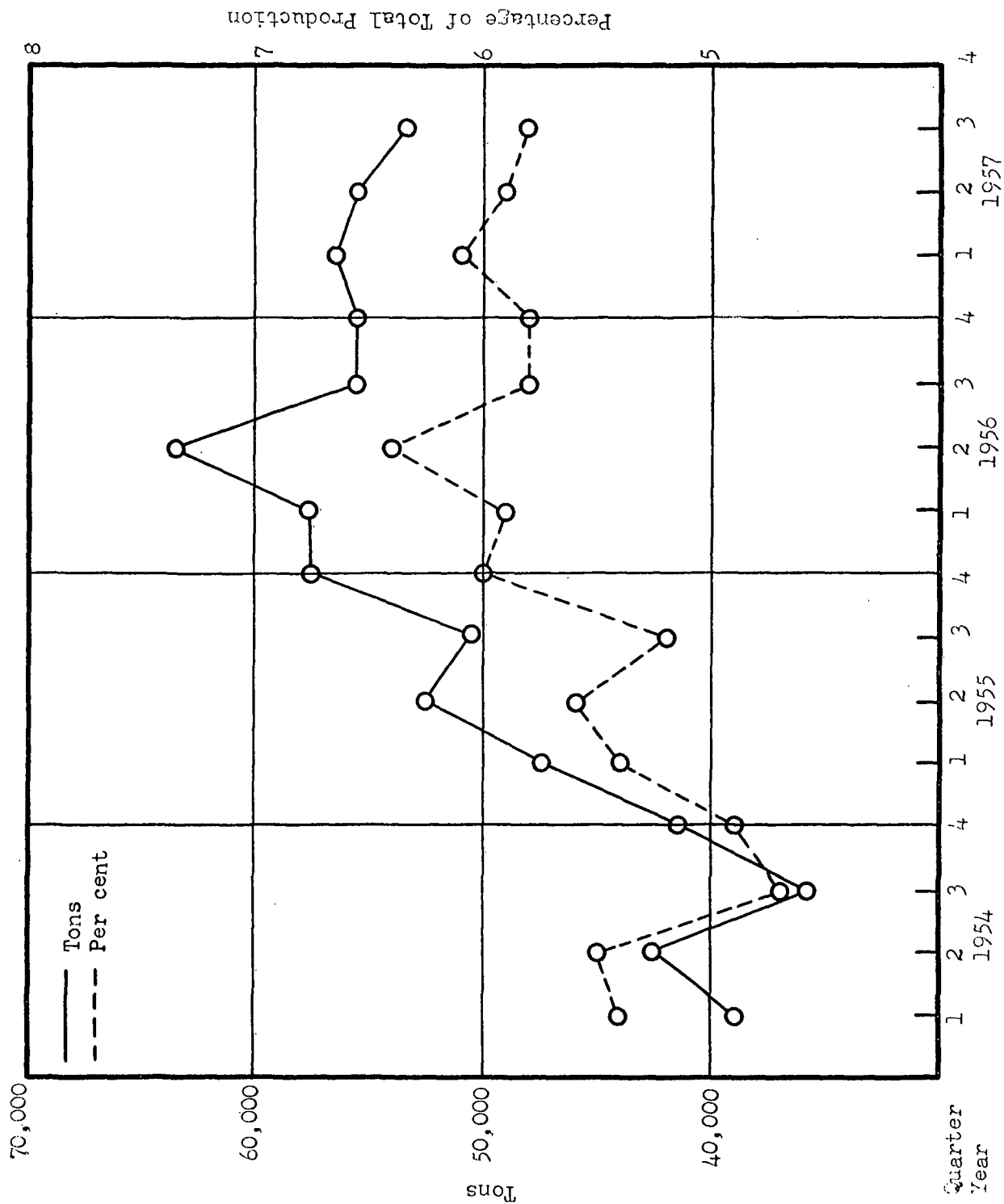


Figure 3. Production, 33-lb.

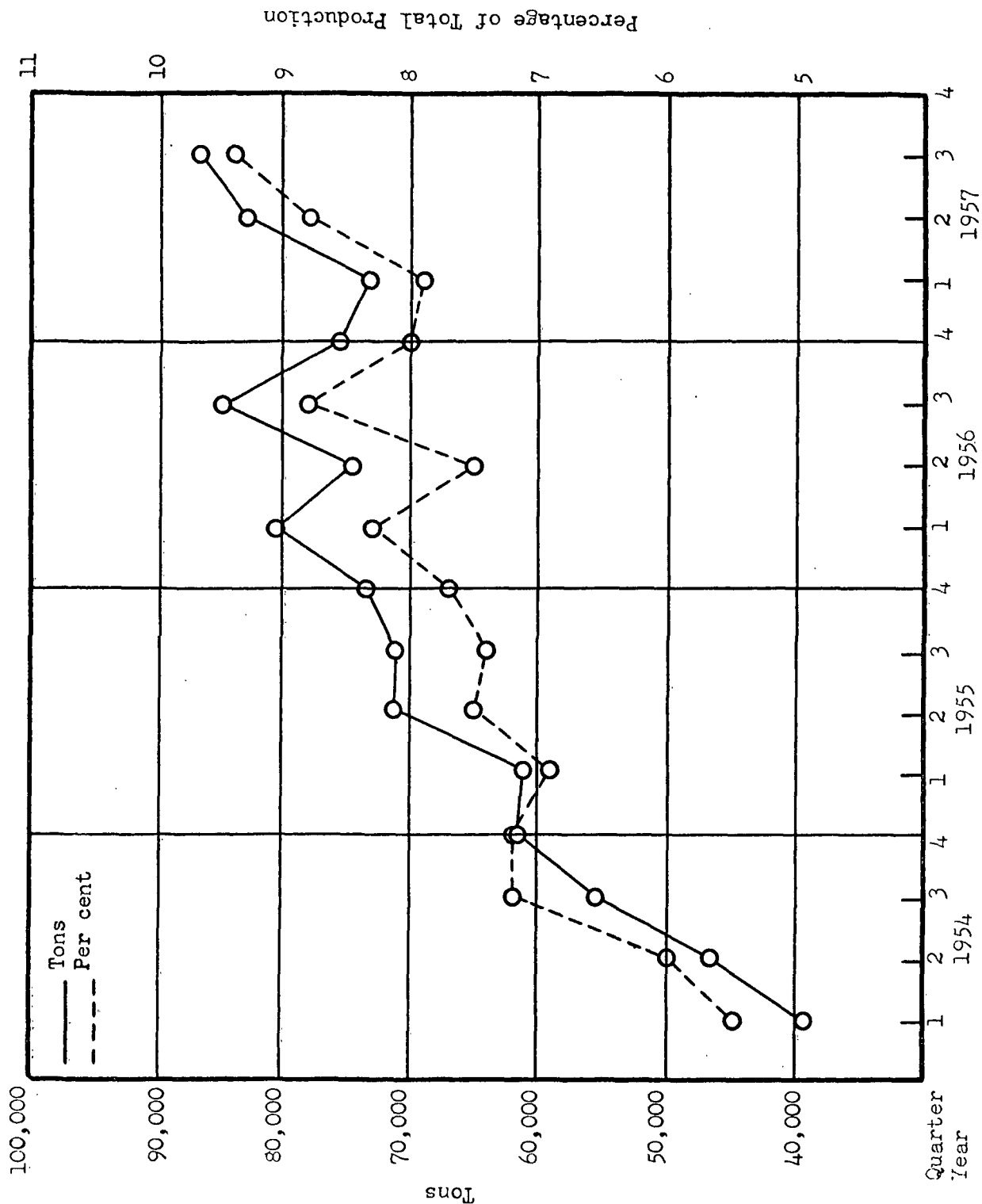


Figure 4. Production, 38-lb.

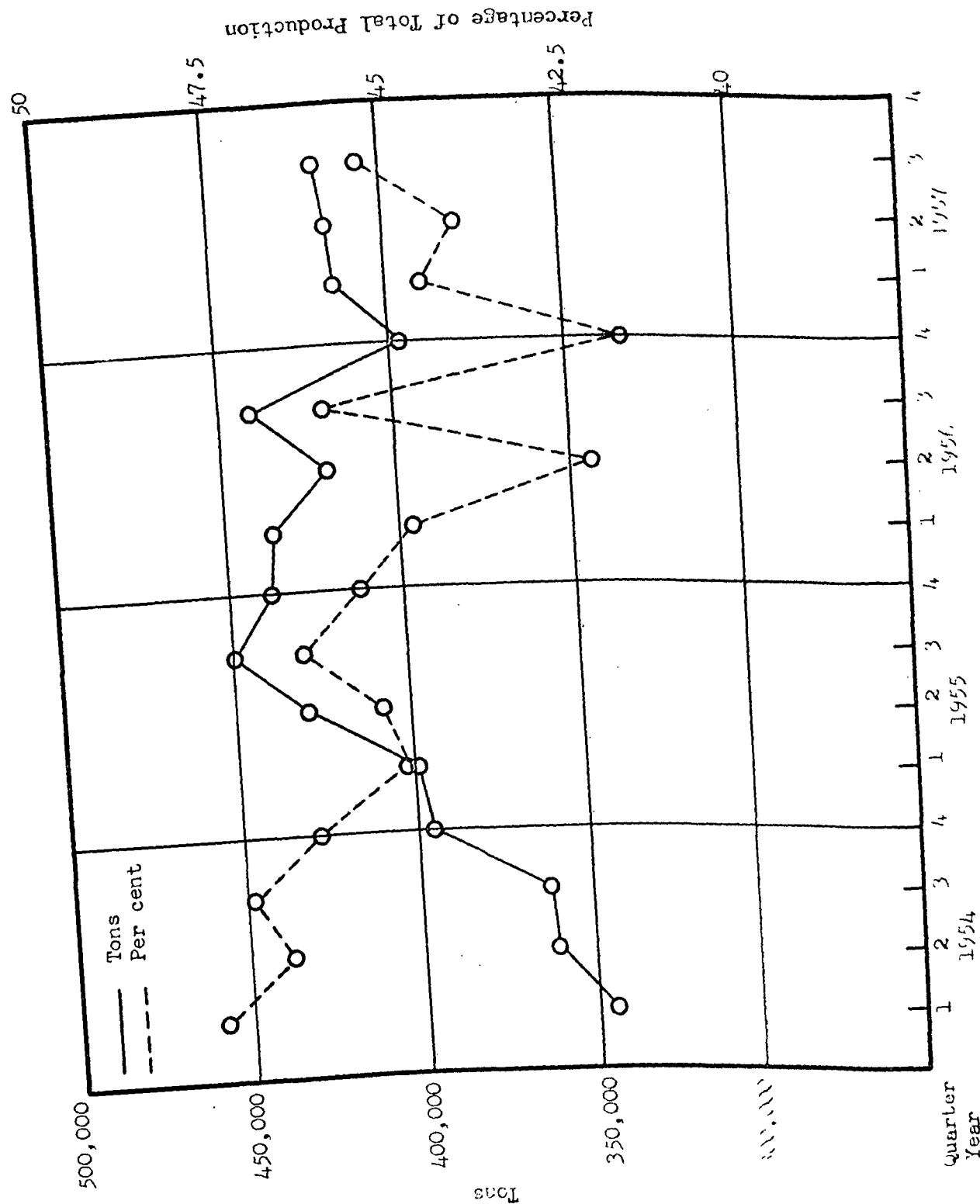


Figure 5. Production, 1954-1957

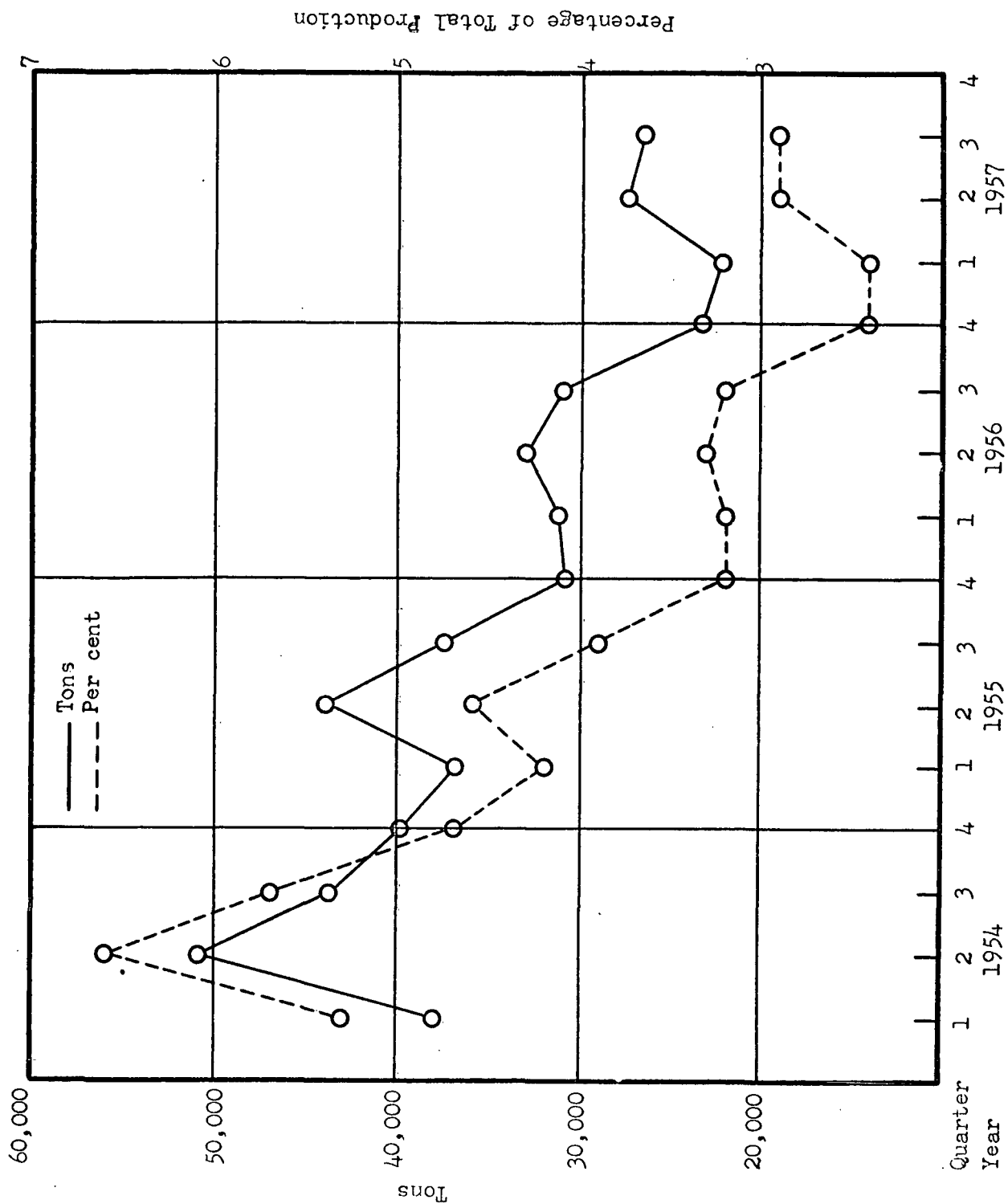


Figure 6. Production, 47-lb.

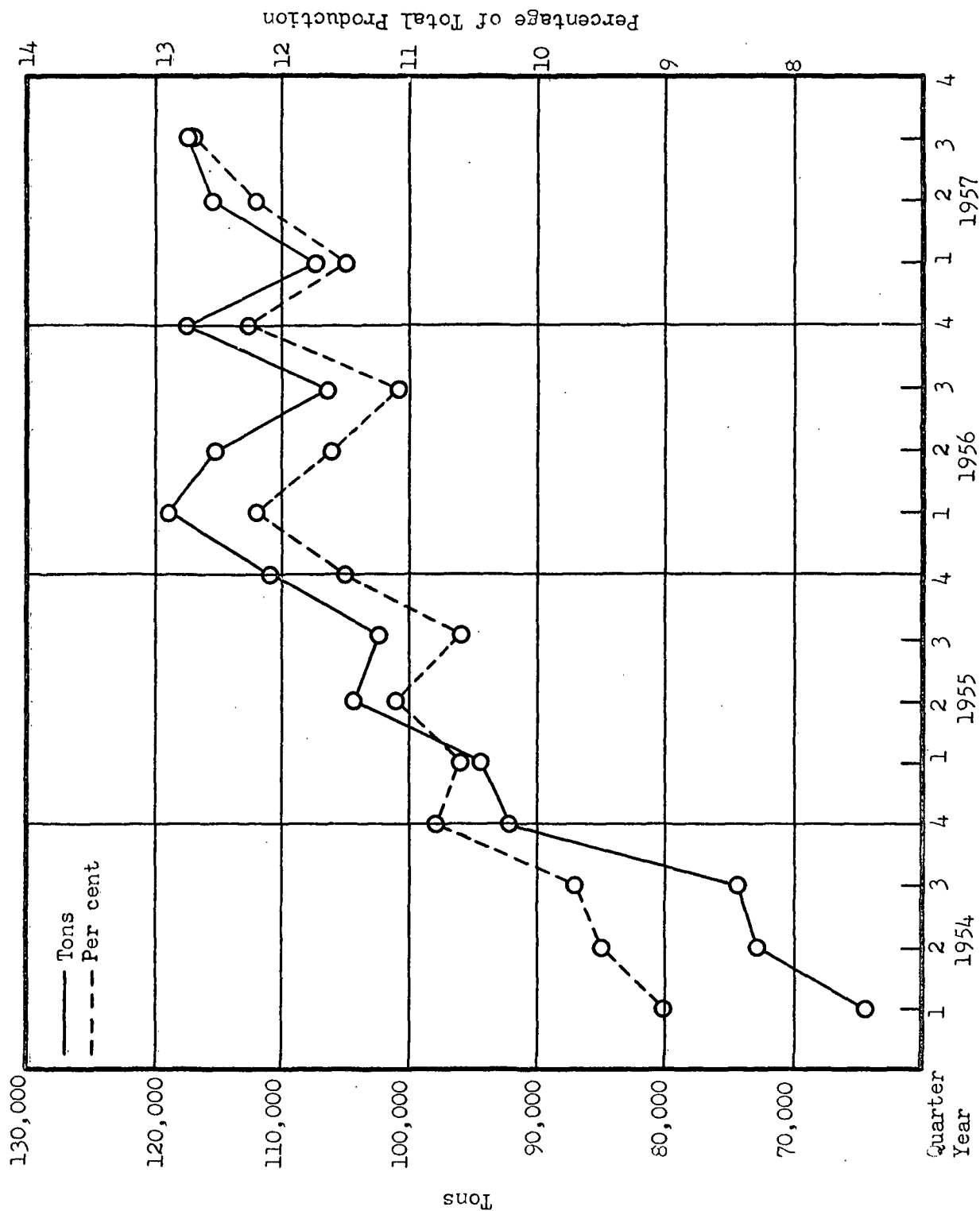


Figure 7. Production, 69-lb.

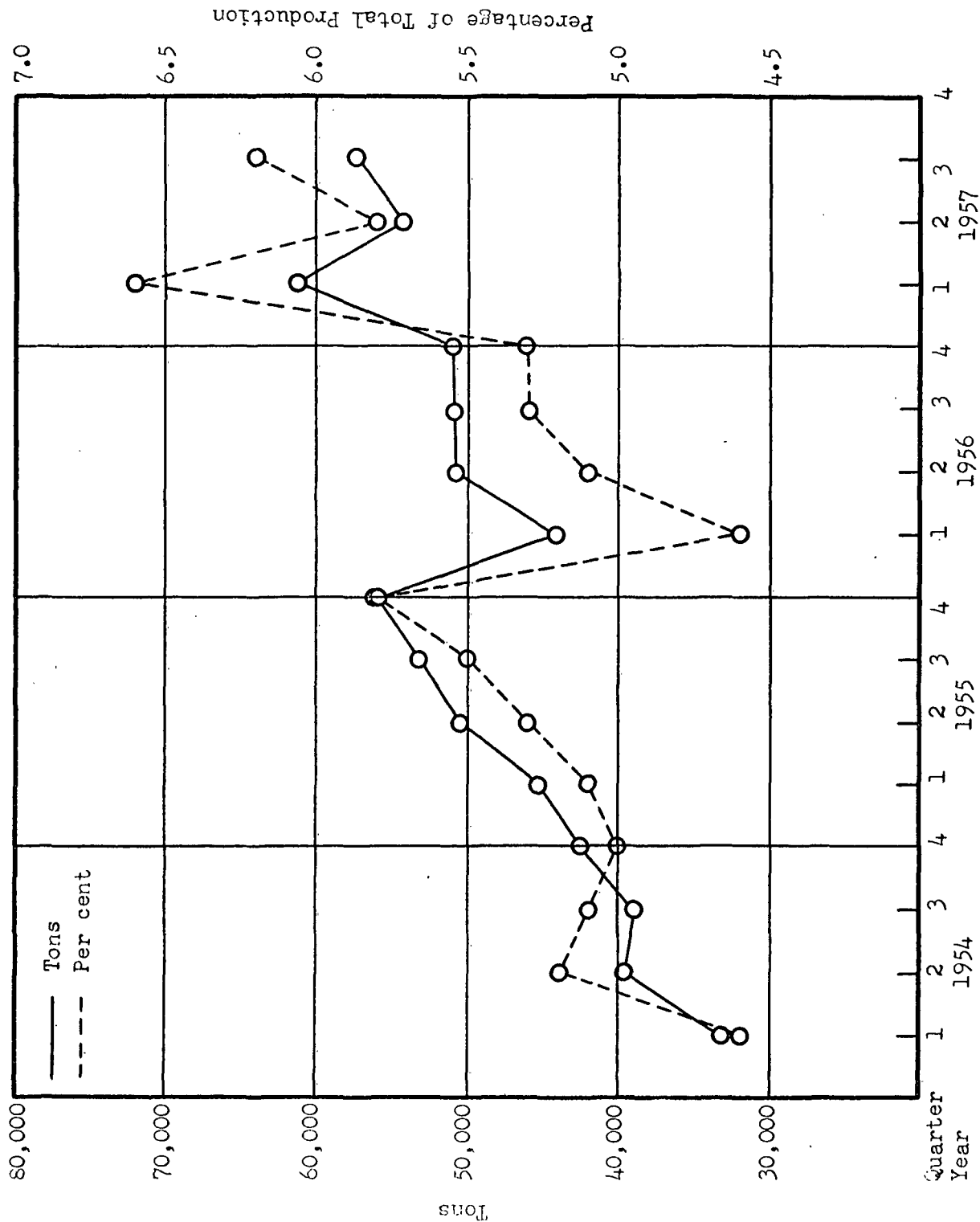


Figure 8. Production, 90-lb.

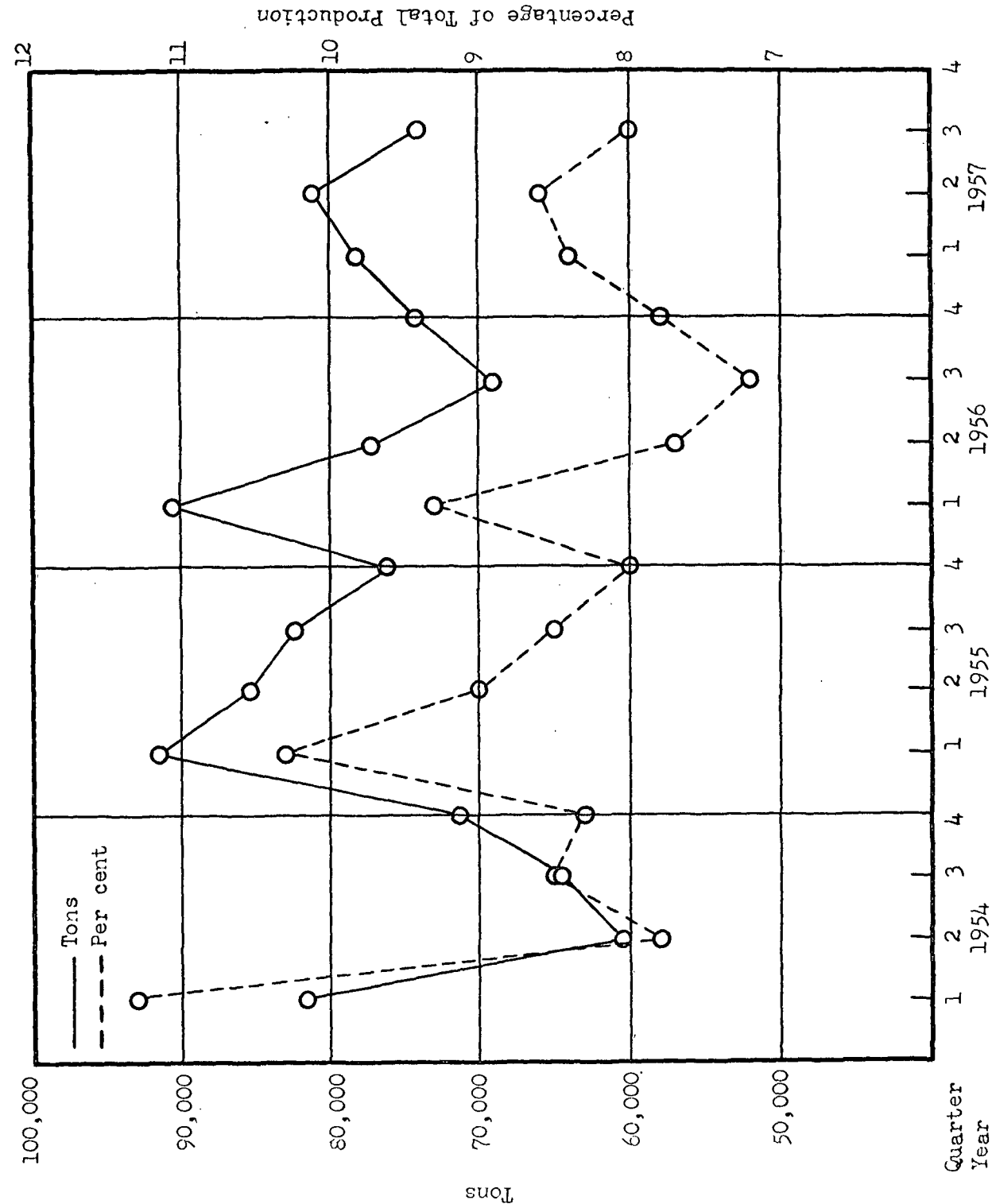


Figure 9. Production, Miscellaneous

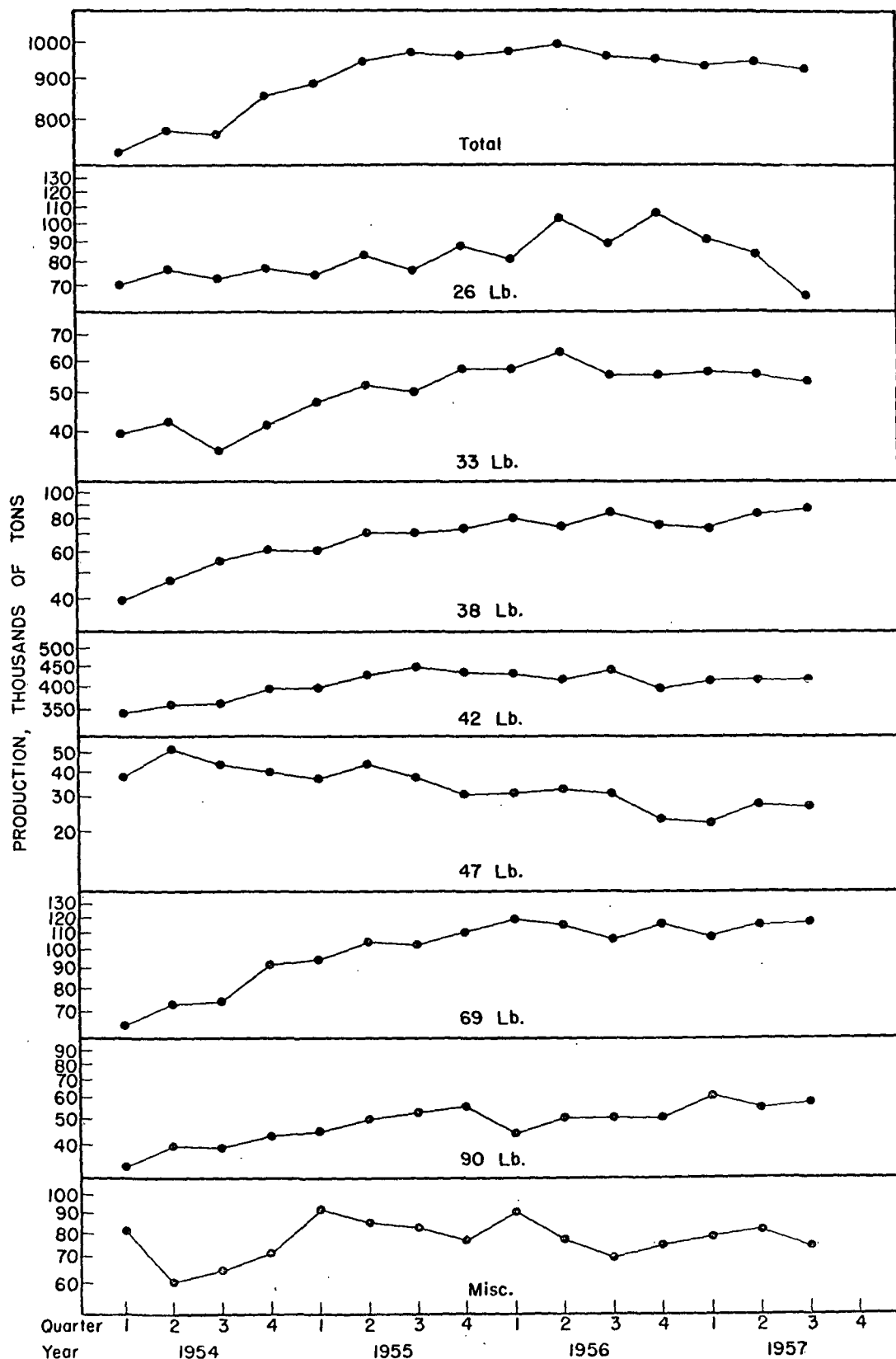


Figure 10. Comparison of Percentage Changes in Production for All Grades.